

Online B1

Suppose, you are a database expert (going to be) in a company having the oracle database system like the one installed in your lab. One day, your CEO told you to provide him/her with the following information from the **hr schema** of your database. Sample outputs have been provided. Observe carefully, your column names are expected to be matched with the provided output's column names.

- Q1. Show the full name (full name means including single space between first_name and last_name) and salary (sorted from low to high) of the employees whose length of the full name is more than 10 characters (without spaces).
- Q2. Show the name of the month and number of employees hired in that month. Month should be sorted according to the appearance in the calendar. (See Sample output).
- Q3. For each manager who manages more than 4 employees show the manager id, number of employees and the average salary of the employees (up to 2nd decimal point) managed by him/her. Show the outputs with average salary greater than 3000. Print the output in the descending order of number of employees managed and if there is a tie then print those in ascending order of average salary.
- Q4. Show the department name, number of employees and the average salary of the employees (up to 2nd decimal point) for each of the department. Sorted by number of employees from high to low.
- Q5. Display the fullname (fullname consists of 1st letter of first name, a DOT, a SPACE and the last name; i.e. if first name is Lionel and last name is Messi then fullname is L. Messi) and the yearly_income (sorted high to low) of the employees whose last name starts with 'M' or 'm'.

Where, yearly_income is calculated as follows:

$$\text{yearly_salary} + \text{yearly_salary} * \text{commision_pct}$$

Note that, there should be no null value in the output.

Oh!!! You are a student of the Department of CSE, BUET. So, don't disappoint him/her!!!

Sample Output:

Q1.

| FULLNAME | SALARY |
|------------------|--------|
| Hazel Philtanker | 2200 |
| Steven Markle | 2200 |
| James Landry | 2400 |
| Peter Vargas | 2500 |
| Joshua Patel | 2500 |

Q2.

| MONTH_NAME | TOTAL_EMPLOYEES |
|------------|-----------------|
| JANUARY | 14 |
| FEBRUARY | 13 |
| MARCH | 17 |
| APRIL | 7 |
| MAY | 6 |

Q3.

| MANAGER_ID | TOTAL_EMPLOYEES | AVG_SAL |
|------------|-----------------|---------|
| 100 | 14 | 11100 |
| 121 | 8 | 3175 |
| 123 | 8 | 3237.5 |
| 147 | 6 | 7766.67 |
| 149 | 6 | 8333.33 |

Q4.

| DEPARTMENT_NAME | TOTAL_EMPLOYEES | AVG_SAL |
|-----------------|-----------------|---------|
| Shipping | 45 | 3475.56 |
| Sales | 34 | 8955.88 |
| Purchasing | 6 | 4150 |
| Finance | 6 | 8601.33 |
| IT | 5 | 5760 |

Q5.

| FULLNAME | YEARLY_INCOME |
|-------------|---------------|
| A. McEwen | 145800 |
| M. Marvins | 95040 |
| S. Mavris | 78000 |
| K. Mourgoss | 69600 |
| J. Mallin | 39600 |